

ABSTRACT

Massive and continuously rainfall will cause floods. Floods can cause people's activities in the area to be hampered. With the technology that growing rapidly, people can get information easily. This Final Project is made to give information about the result of floods prediction using a technology called Internet of Things (IoT).

This floods prediction is using Radial Basis Function. The data will be received from Citarum River Hall and other device that was designed by other party. The Information that will be used from Citarum River Hall is rainfall and river water debit. The output that will be given by the Artificial Neural Network will be sent to an android application that will displaying the oportunity of floods.

Using epoch as much as 700 giving error value of TMA equal to 0.027 and error value of CH equal to 0.002, a learning rate of 0.00007 giving error value of TMA equal to 0.286 and error value CH equal to 0.002, and a hidden neuron of 2 giving error value of TMA equal to 0.6483 and error value of CH equal to 15.999 can be used to predict the flooding.

Keywords: *Floods Forecasting, Radial Basis Function, Internet of Things*